

TOP SECRET

OUT 62423

P 270359Z  
FM NPIC

1967 JUN 27 04 53Z

25X1

AFSSO PACAF  
AFSSO ACIC  
AFSSO FTD  
AFSSO USAF  
CNO  
OPCEN

TOP SECRET

CITE NPIC 1084.

SUBJECT: CAMERA INFORMATION FOR MISSION 1042-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS,  
A STELLAR CAMERA, AND AN INDEX CAMERA.

## 2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS(MM)	609.628	609.628	FWD 55.000	FWD 55.000
			AFT 55.000	AFT 55.000

FILTER (WRITTEN NR)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH(IN)	.200	.150		
EXPOSURE (SEC)	1/100	1/100		
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	205	205	NA	NA

B. S/I UNITS	STELLAR	INDEX
FOCAL LENGTH(MM) PART 1	83.9121	38.3364
PART 2	83.7230	38.2628
FILTER (WRITTEN NR)	NONE	21
APERTURE	F1.8	F4.5
EXPOSURE (SEC)	1.0	1/500
FILM	3401	3400
RESOLUTION (L/MM) PART 1		74

DISTRIBUTION 7		
Cy No.	Office	Action
1	File	
	OS	
	SEC BR	
	TDS	25X1
	CSD	
	IPD	25X1
	PD	
	PSD	
	PLBICB	
	TID	
	IAD	
	PAG	
	DIAXX-4	
	SPAD	
	NSA-LO	
	D.A-AP	

Advance copy  
Sanitized

Declass Review by NGA

25X1

TOP SECRET

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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## PART 2

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UNIT NUMBER PART 1 D97/120/117

PART 2 D98/121/118

## 3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.002	.001	.0	.0	.0	.002	.003
AFT UNIT	.003	.001	.0	.0	.0	.002	.003

B. HORIZON CAMERAS (MM) FWD AFT

	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.020	.020	.010	.010
20 DEGREES	.060	.060	.040	.030
(TANGENTIAL) MAX VECTOR	.015		.030	.015 .020

4. CAMERA ANGLES DEG. MIN.

A. ANGLE BETWEEN PAN CAMERAS 29 50.29

B. DEPRESSION ANGLE BETWEEN

HORIZON AND PAN CAMERAS	FWD STAR	13	55.7
	FWD PORT	15	12.0
	AFT STAR	15	59.0
	AFT PORT	15	52.9

C. ANGLE BETWEEN STELLAR

AND INDEX CAMERAS PART 1 89 58.0

## 5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
6	.3468	.0314	5	.0857	.0077	1D AND 4D
6	.3468	.0314	4	.0986	.0089	5D THRU 11D
6	.3468	.0314	3	.1110	.0100	13D THRU 87D

## 7. PROGRAM TIME DATA

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PASS	CAMERA ON TIME (ZULU TIME) DAY HR MIN SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	16 23 04 32	1330	38
4D	17 03 31 42	1146	88
5D	17 05 04 53	1293	55
6D1	17 06 38 07	1492	35
6D2	17 06 42 44	1768	222
7D	17 08 06 01	1361	99
8D	17 09 32 38	1159	125
9A	17 10 43 42	47	47
9D1	17 11 03 46	1251	23
9D2	17 11 05 03	1329	26
9D3	17 11 09 45	1611	138
9D4	17 11 18 13	2119	74
10D	17 12 41 29	1694	27
11D	17 14 11 46	1713	22
13D	17 17 19 23	2174	226
14D	17 18 39 17	1571	62
16D1	17 21 29 43	1004	27
16D2	17 21 39 14	1575	28
21D	18 05 07 58	1512	111
22D	18 06 43 00	1818	56
23D1	18 08 03 27	1250	77
23D2	18 08 06 57	1460	100
24D	18 09 33 03	1230	44
25D1	18 11 03 40	1271	127
25D2	18 11 10 44	1695	152
26D	18 12 43 23	1859	39
29D	18 17 20 52	2322	102

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30D1	18	18	40	00	1674	31
30D2	18	18	58	55	2809	123
36D	19	03	34	59	1437	102
37D1	19	05	02	13	1227	79
37D2	19	05	03	58	1332	117
37D3	19	05	07	17	1531	101
38D	19	06	31	56	1214	78
39D	19	08	05	17	1436	284
40D	19	09	32	13	1283	76
41D	19	11	10	04	1736	80
45D	19	17	19	21	2316	259
48D	19	21	39	34	1748	37
52D	20	03	31	42	1306	28
53D1	20	05	04	04	1455	95
53D2	20	05	07	06	1637	36
53D3	20	05	23	16	2607	113
55D1	20	08	00	35	1261	107
55D2	20	08	05	58	1584	213
56D	20	09	29	21	1194	144
57D1	20	11	02	20	1381	187
57D2	20	11	09	17	1798	61
57D3	20	11	19	00	2381	173
58D	20	12	40	16	1864	122
59D	20	14	10	55	1912	56
63D	20	20	08	15	1786	23
68D	21	03	30	18	1353	35
69D1	21	05	03	01	1525	25
69D2	21	05	04	52	1636	56
69D3	21	05	22	12	2676	97
70D	21	06	31	51	1465	49

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71D1	21	07	59	39	1313	68
71D2	21	08	04	36	1610	132
71D3	21	08	08	25	1839	78
72D1	21	09	27	52	1247	230
72D2	21	09	32	28	1523	82
73D	21	11	02	43	1546	75
74D1	21	12	37	21	1835	38
74D2	21	12	38	40	1915	65
77D	21	17	16	06	2391	232
79D	21	20	04	26	1714	23
84D	22	03	27	22	1343	187
85D	22	05	00	34	1546	77
86D1	22	06	30	15	1538	73
86D2	22	06	32	43	1686	75
87D1	22	07	56	12	1307	157
87D2	22	08	00	30	1565	82
87D3	22	08	02	49	1703	33

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 SECONDS  
TO OBTAIN START TIMES OF AFT UNIT.

#### 8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
8	470276.367	33040.7505	----
16	515122.526	77886.9188	.009
24	19766.481	33001.7945	.010
32	64636.025	77871.3483	.010
40	106105.231	32940.5637	.009
48	150988.270	77823.6130	.010
56	192418.117	32853.4699	.010
63	231940.148	72375.5105	.010
73	284619.026	38654.4017	.013

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74 318190.727 72226.1113 .009

88 365130.512 32765.9087 .012

NOTE: ALL "DIFFERENCE" VALUES ARE MINUS.

GP-1

T O P S E C R E T

-END OF MESSAGE-

S/C NOTE:

25X1

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